Technical Test -1 [First Round]

Develop a RAG pipeline that uses GPT-4 to generate automation code. You can refer to Zapier's natural language automation to look at expected UX. You can use trigger.dev or any similar open-source automation builders.
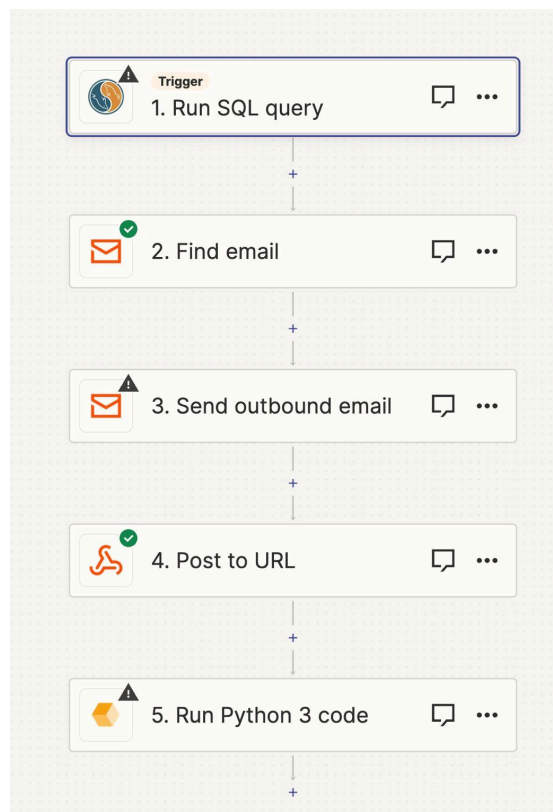
Keep it super modular aka should be able to change out the LLM.

Example 1:

User - Whenever an SQL query returns a blank result, send an email via Gmail based on certain parameters. Whenever the user replies to the email, trigger a webhook to parse and insert gmail response data into the SQL table again.

Expected LLM Output - an automation pipeline that has 4 steps starting with SQL query which if failed or returns an empty response, triggers an email based on the email ID requesting the user fill in the relevant data. Once the user replies with the response data in the email, trigger a webhook that calls a Python script that parses the email response data and reinserts it into an SQL table.

Visual/Executed LLM Output- **Will be an automation pipeline**

Bonus: Present a dataset that you would want to use to train an open-source LLM to specialize in this task. (natural language automation code generation)